



Intel® 875P MCH with Intel® 6300ESB ICH Chipset Development Kit

Product Overview

The Intel® 875P MCH with Intel® 6300ESB ICH Chipset Development Kit is an excellent choice for developers of communications, storage, security and industrial automation applications, where outstanding memory performance, ECC, and extended I/O capabilities are desired.

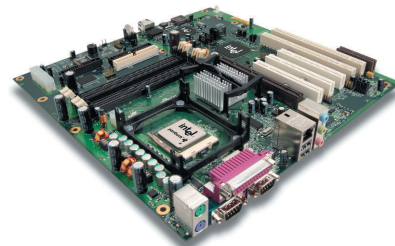
Flexibility and scalability of this development kit are exceptional. In addition to support for DDR SDRAM at 400, 333, or 266 MHz, the Processor System Bus (PSB) supports 800, 533, 400 MHz. As a result, the Intel® Pentium® 4 processor, Intel Pentium 4 processor with Hyper-Threading (HT) Technology, and related Intel® Celeron® processors can be readily interchanged. Likewise, the proper selection of processor and memory technology can be easily prototyped to evaluate different performance envelopes.

Advanced capabilities, such as PCI-X, SATA, Intel® Communications Streaming Architecture (CSA) and Intel® Performance Acceleration Technology (Intel® PAT) can also be evaluated with this development kit.

Product Highlights

Evaluation Board Support

- Intel Pentium 4 processor, Intel Pentium 4 processor with HT Technology, or Intel Celeron processor at 800/533/400 MHz PSB speeds in µFC-PGA 478 packaging
- Intel 875P Memory Controller Hub (MCH) supports up to 4 GB DDR SDRAM at 400/333/266 MHz
 - CSA port for direct Gb Ethernet connection
 - AGP 8x
 - Dual-channel ECC
 - AMI evaluation BIOS
 - Intel PAT (<http://developer.intel.com/design/chipsets/pat.htm>)



- Intel 6300ESB I/O Controller Hub
 - PCI-X (66 MHz), PCI, USB 2.0, SATA/150, ATA/100
 - Integrated dual-stage watchdog timer
 - Integrated serial interface unit
- GPIOs
- Port 60/64 Emulation
- LPC
- AC '97

Board Peripheral Features

Super I/O to support floppy, PS/2 mouse, keyboard, parallel port, and serial port (via header)

User-Accessible On-Board Connectors

- PS/2 mouse, keyboard
- Parallel port (from super I/O)
- Two serial ports (from 6300ESB)
- Serial port header (from Super I/O)
- Four USB 2.0 ports
- Two Gb Ethernet ports
- Two IDE connectors
- Two SATA connectors
- Floppy connector
- Three 32-bit PCI slots
- Two 64-bit PCI-X slots
- One CNR slot
- One AGP slot
- ITP connector
- Four DDR DIMM slots

Included in the Kit

- Development board
- Intel Pentium 4 processor with HT Technology, 3.0 GHz, with 800 MHz PSB, or Intel Pentium 4 processor 2.8 GHz, with 533 MHz PSB
- CPU thermal solution
- Two 256 MB, 333 MHz DDR DIMMS
- Cable kit (IDE, SATA, floppy)
- CD including Intel-developed drivers that enable Windows* XP, Windows* XP Embedded, Windows* 2000, Windows* 2003 Advanced Server, Red Hat Linux* 8.0 Pro, Red Hat Advanced Server,* INF Utilities

Product Benefits

The Intel 875P MCH with Intel 6300ESB ICH Chipset Development Kit is an evaluation kit with hardware, and supporting documentation designed for use in embedded computing applications. This and other development kits from Intel provide a fully working product with a range of performance

options that can be modified or used immediately for product development. These kits provide a platform with a validated processor/chipset combination, allowing software vendors to test BIOS and operating system software.

With this kit, developers can design on a single board to provide a range of performance options. This can reduce the design and validation efforts, lower the total cost of ownership by reducing inventory and manufacturing costs, and facilitate faster time-to-market.

Software Overview

In order to provide customers with a complete development environment in the development kit, Intel works to provide and/or enable the platform to work with customer applications and operating systems. Any software or firmware provided in the kit is subject to change without notice. For the most recent updates, please refer to the Intel 875P MCH with 6300ESB ICH Chipset Development Kit Web site at <http://developer.intel.com/design/intarch/devkits/875P.htm>

Development Kit Ordering Information

Order Code	Description
EID875PDEVKIT	Intel® 875P MCH with Intel® 6300ESB ICH Chipset Development Kit

Intel Access

Developer's Site:	developer.intel.com
Embedded Intel® Architecture Home Page:	www.intel.com/design/intarch
Intel Technical Documentation Center:	www.intel.com/go/techdoc (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline:	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

For more information, visit the Intel Web site at: developer.intel.com

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